Index of Claims



Application/Control No.

Applicant(s)/Patent under Reexamination

090512KARPOV, ILYA V.

10/634,139 Examiner

Art Unit 2818

DUNG A. LE

Date

**Appeal** Α

Rejected Allowed

(Through numeral) Cancelled Restricted

Claim

Interference

Non-Elected

0 Objected

| Claim    |   | Date   |                  |             |             |          |  |  |          |           |  |
|----------|---|--|------------------|-------------|-------------|----------|--|--|----------|-----------|--|
| Final    | Original  | 9/12/05  | 90/06/9          | 90/5/9      | 8/11/06     | 12/12/06 |  |  |          |           |  |
|          | 1   |  |                  |             |             |          |  | F  |          |           |  |
|          | 2   |  |                  |             |             |          |  |  |          |           |  |
|          | 3   |  | L.               |             |             |          |  |  | L.,      |           |  |
|          | 4   |  |                  |             |             |          |  |  | L.       |           |  |
|          | 5   | <u> </u>   |                  |             |             | Ļ        |  |  | ļ        |           |  |
|          | 5   |  |                  | <u> </u>    |             |          | _  |  |          |           |  |
|          | 4   |  | <u> </u>         |             | -           |          | ļ  | _  |          |           |  |
|          | 9   | $\vdash$   |                  |             | -           | -        |  | ┝  | ├─       |           |  |
|          | 10  |  |                  |             |             |          |  | $\vdash$   | $\vdash$ | Н         |  |
|          | 11  | ٧  | ٧                | v           | ٧           | =        | $\vdash$   |  | $\vdash$ | П         |  |
|          | 12  |  |                  | _           |             | =        |  |  |          |           |  |
|          | 13  | ٧  | ٧                | v<br>v      | ۷<br>۷      | =        |  |  |          |           |  |
|          | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31 | v<br>v<br>v<br>v                                 | v<br>v<br>v<br>v | v<br>v      | ٧           | =        |  | _  | _        | Ш         |  |
|          | 15  | ٧  | V                | v           | V           | <u> </u> |  | <u> </u>   |          | Ш         |  |
|          | 16  | V  | \ <u></u>        | V           |             | =        |  |  | <u> </u> | H         |  |
|          | 1/  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \            | V                | V           | V           | =        |  |  | -        | Н         |  |
|          | 19  | ۷<br>۷   | V                | V           | v           | =        |  | -  | -        | Н         |  |
| _        | 20  | ١÷   |                  | v           | Ť           | =        |  |  |          | Н         |  |
|          | 21  | v  | V                | v<br>v      | v           | =        |  |  |          | П         |  |
|          | 22  | v  | v                | v           | v           | =        |  |  |          |           |  |
|          | 23  | V  | v<br>v<br>v      | v<br>v<br>v | v<br>v      | =        |  |  |          |           |  |
|          | 24  | v  | v                | v           | v           | =        |  |  | L        |           |  |
|          | 25  | V  | <u> </u>         | V           | v           | =        |  | ļ  |          | Ш         |  |
|          | 26  | v<br>v<br>v<br>v<br>v                            | v<br>v           | v<br>v<br>v | v<br>v<br>v | =        |  |  | ļ        | Ы         |  |
|          | 27  | V<br>V   | \ <u>\</u>       | V           | V           | =        | _  |  | -        | $\vdash$  |  |
|          | 20  | V  | v                | V           | VV          | =        |  |  | -        | Н         |  |
|          | 30  | v  | v                | v           | v           | =        |  | -  |          | Н         |  |
|          | 31  | v<br>v<br>v                                      | v                | v<br>v<br>v | v           |          |  | _  | -        | H         |  |
|          | 32  |  |                  | _           | _           |          |  |  |          | П         |  |
|          | 33  | ٧  | ٧                | v           | ν           |          |  |  |          |           |  |
|          | 34  | v  | v                | ٧           | V           |          |  | L_   |          |           |  |
|          | 34<br>35<br>36<br>37<br>38<br>39  | ٧  | ٧                | v           | ٧           |          |  | <u> </u>   | <u> </u> |           |  |
| <u> </u> | 36  |  | _                |             |             |          | <u> </u>   | _  | <u> </u> | Ш         |  |
|          | 38  | -  | $\vdash$         |             | $\vdash$    | -        |  |  |          | H         |  |
|          | 39  |  | -                |             | -           |          |  | ├─   | -        | $\vdash$  |  |
|          | 40  | <del>                                     </del> | -                | $\vdash$    |             | $\vdash$ | <del>                                     </del> | <del>                                     </del> | -        | Н         |  |
|          | 41  |  |                  |             |             |          |  |  |          | Н         |  |
|          | 42  |  |                  |             |             |          |  |  |          |           |  |
|          | 43  |  |                  |             |             |          |  |  |          |           |  |
| <u> </u> | 44  | <u> </u>   |                  | Ш           | _           | Ĺ        | <u> </u>   | L  |          |           |  |
|          | 45  | <u></u>  |                  |             | _           | <u> </u> | ļ  | L  | L        | $\square$ |  |
|          | 46  | <u> </u>   | _                |             | <u> </u>    | $\vdash$ | ļ  | ļ  | <u> </u> | Н         |  |
|          | 47<br>48  | $\vdash$   | -                |             | <u> </u>    | <u> </u> |  |  |          | Н         |  |
|          | 49  |  | $\vdash$         | -           | -           | -        |  | -  |          | Н         |  |
|          | 50  | -  | <del> </del>     | -           | -           | -        | -  | $\vdash$   | $\vdash$ | Н         |  |
| <b>L</b> |   | <u> </u>   |                  |             |             |          | ــــــــــــــــــــــــــــــــــــــ           | ــــــــــــــــــــــــــــــــــــــ           | Щ.       |           |  |

| <u>a</u> | Original       |          |          |          |             |          |               |          |    |              |   |
|----------|----------------|----------|----------|----------|-------------|----------|---------------|----------|----|--------------|---|
| Final    | Orig           |          |          |          |             |          |               |          |    |              |   |
|          | 51             |          |          | _        |             | -        | İ             |          |    |              | 1 |
|          | 51<br>52<br>53 |          |          | $\vdash$ |             | _        | $\vdash$      | _        | -  |              |   |
|          | 53             |          |          | ┢─       | -           | -        |               | _        |    | Н            |   |
|          | 54             | $\vdash$ | -        |          | <b></b>     | ┢╌       |               |          | -  | $\vdash$     |   |
|          | 55             |          |          | ┢        | <b></b>     | -        |               | _        |    |              | l |
|          | 56             |          | $\vdash$ |          | $\vdash$    | $\vdash$ | $\vdash$      | -        |    |              | 1 |
|          | 57             |          |          | $\vdash$ | $\vdash$    | _        | H             | _        |    | <u> </u>     |   |
|          | 58             |          |          |          |             |          | $\vdash$      |          |    | $\vdash$     |   |
|          | 59             |          |          | $\vdash$ | $\vdash$    |          | <del> </del>  |          |    | $\vdash$     | 1 |
|          | 60             |          |          |          | <del></del> | _        | -             | _        |    | $\vdash$     |   |
|          | 61             |          |          |          | $\vdash$    | <u> </u> | -             | _        | _  |              |   |
|          | 62             | $\vdash$ |          | $\vdash$ | $\vdash$    | -        |               | $\vdash$ | _  | ├            |   |
| <b>—</b> | 63             |          |          | $\vdash$ | $\vdash$    |          | $\vdash$      |          | _  | ┝╌           |   |
| <u> </u> | 64             |          |          |          | _           | _        |               |          |    |              |   |
|          | 65             |          | -        | <u> </u> | -           |          |               |          |    |              | l |
|          | 66             | $\vdash$ |          | ┢        |             |          |               |          |    | Ė            | İ |
| ·        | 67             |          |          | $\vdash$ | $\vdash$    | -        |               |          |    |              |   |
| -        | 68             |          |          | $\vdash$ |             | -        |               |          |    | $\vdash$     |   |
|          | 69             | $\vdash$ | -        | -        | _           |          |               |          |    | $\vdash$     |   |
| <u></u>  | 69<br>70       |          |          | $\vdash$ | <u> </u>    |          |               |          |    |              |   |
|          | 71             |          |          | $\vdash$ | $\vdash$    | -        |               |          |    |              |   |
|          | 72             |          |          |          | _           | -        |               | _        |    | $\vdash$     |   |
| <b></b>  | 72<br>73       |          |          | $\vdash$ |             |          |               |          |    | $\vdash$     |   |
|          | 74             |          |          |          |             | $\vdash$ | <del></del> - |          | -  | <del> </del> |   |
|          | 74<br>75       |          |          |          |             | _        |               | _        | _  |              |   |
|          | 76             |          | _        |          |             | $\vdash$ |               |          |    |              |   |
|          | 77             |          | _        |          |             | T        |               |          |    |              |   |
|          | 78             |          | -        | Ι        |             |          |               |          |    |              |   |
|          | 79             |          |          |          |             |          |               |          |    |              |   |
|          | 80             |          |          |          |             |          |               |          |    |              |   |
|          | 81             |          |          |          |             |          |               |          |    |              |   |
|          | 82<br>83       |          |          |          |             |          |               |          |    |              |   |
|          | 83             |          |          |          |             |          |               |          |    |              |   |
|          | 84             |          |          |          |             |          |               |          |    |              |   |
|          | 85             |          |          |          |             |          |               |          |    |              |   |
|          | 86             |          |          |          |             |          |               |          |    |              |   |
|          | 87             |          |          |          |             |          |               |          |    |              |   |
| <u> </u> | 88             | L        |          |          |             |          |               |          |    | <u> </u>     |   |
| <u>L</u> | 89             |          |          |          |             | L        |               |          |    |              |   |
|          | 90             | _        |          |          |             | _        |               |          |    |              |   |
| <u></u>  | 91             |          |          | _        |             | L        |               |          |    |              |   |
|          | 92             | _        |          | <u> </u> |             | _        |               |          |    |              |   |
| <u></u>  | 93             | <u> </u> | L        | <u> </u> |             | <u> </u> |               |          |    |              | 1 |
| <u> </u> | 94             | <u> </u> | L        | <b> </b> | ļ           | L-       |               | L.       | L_ | <u> </u>     |   |
| <u></u>  | 95             |          |          | <u> </u> | <u> </u>    |          |               | L_       |    |              | l |
| <u></u>  | 96             |          |          | <u> </u> |             | _        |               | _        | L. | <u> </u>     |   |
| <u></u>  | 97             | <u></u>  |          | <u> </u> | <u> </u>    | <u> </u> | L             | L        |    | <u> </u>     |   |
| <u></u>  | 98             | L.,      | L        | <u> </u> |             |          | _             |          |    | <u> </u>     |   |
| L        | 99             |          | <u> </u> |          | L           | L        | L_            |          | L. | <u> </u>     |   |
| ŀ        | 100            | 1        | ì        | 1        |             |          |               |          |    |              | ] |

| Claim    |   | Date           |              |  |  |              |  |              |  |                 |  |
|----------|---|----------------|--------------|--|--|--------------|--|--------------|--|-----------------|--|
|          |   |                |              |  | ŀ  |              |  |              |  | Πİ              |  |
| ā        | Original                                      |                |              |  |  |              |  |              |  |                 |  |
| Final    | rigi  |                |              |  |  |              |  |              |  |                 |  |
| -        | Ō   |                |              |  |  |              |  |              |  |                 |  |
|          | 101   |                |              |  | <del></del>                                      |              | <u> </u>   | -            | -  |                 |  |
|          | 101<br>102                                    |                |              |  |  |              | $\vdash$   |              |  | $\dashv$        |  |
|          | 102   |                | -            |  |  |              | $\vdash$   |              |  |                 |  |
|          | 103   |                | -            |  |  |              | <del> </del>                                     |              |  | $\vdash$        |  |
|          | 104   |                | _            |  |  |              | <u> </u>   |              | -  |                 |  |
|          | 105<br>106                                    | -              | -            | ļ  |  |              | H  |              |  | $\vdash$        |  |
|          | 100   | -              |              |  |  |              | H  |              |  | $\dashv$        |  |
|          | 107   |                |              |  | _  | <u> </u>     |  |              |  |                 |  |
|          | 108<br>109                                    |                |              |  | <del> </del>                                     | <u> </u>     | <u> </u>   |              |  | Н               |  |
|          | 109   |                | _            | H  |  | ⊢            | L  |              |  | Ш               |  |
|          | 110   |                | <u> </u>     |  | <u> </u>   | _            | <u> </u>   |              | _  | Ш               |  |
|          | 111   |                | <u> </u>     | ļ  | <b>├</b> —                                       | <u> </u>     | <u> </u>   | <u> </u>     | <u> </u>   | $\sqcup$        |  |
|          | 112   | -              | <u> </u>     | ļ  |  | <u> </u>     | <u> </u>   | <u> </u>     |  | $\bowtie$       |  |
|          | 113   | <u> </u>       |              |  | $\vdash$   | $\vdash$     | $\vdash$   | <u> </u>     | <u> </u>   | Ш               |  |
|          | 114   | H              | <u> </u>     |  | <u>                                     </u>     | <u> </u>     | <u> </u>   | <u> </u>     | <u> </u>   | Ш               |  |
|          | 115   | <b> </b> -     | <u> </u>     |  | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>     | <u> </u>   | Щ               |  |
|          | 111<br>112<br>113<br>114<br>115<br>116<br>117 | <u> </u>       |              | <u> </u>   | <u> </u>   | <u> </u>     | $\vdash$   | <u> </u>     | <u> </u>   | Щ               |  |
|          | 11/   | <u> </u>       | <u> </u>     |  | $\vdash$   | <u> </u>     | $\vdash$   | <u> </u>     | <u> </u>   | Щ               |  |
|          | 118<br>119<br>120                             | <u> </u>       | <u> </u>     |  | _  | <u> </u>     | $\vdash$   | _            | <u> </u>   | Щ               |  |
|          | 119   | <u> </u>       | ļ            | -  | <del>                                     </del> | <u> </u>     | ļ  | <u> </u>     |  |                 |  |
|          | 120   | <u> </u>       | ļ            | _  | <u> </u>   | <u></u>      | _  | -            | <u> </u>   |                 |  |
|          | 121   | <u> </u>       | _            | _  | <u> </u>   |              | _  |              | _  |                 |  |
|          | 122   | -              | ļ            | _  | <u> </u>   |              | <u> </u>   |              | <u> </u>   | Щ               |  |
|          | 123   | -              | ļ            |  | _  |              |  | -            |  |                 |  |
|          | 122<br>123<br>124<br>125                      | _              |              | <u> </u>   | <u> </u>   | <b></b>      | <del> </del>                                     |              |  |                 |  |
|          | 125   | $\vdash$       | -            |  |  |              | $\vdash$   | _            | <u> </u>   | Н               |  |
|          | 120   | <u> </u>       | -            | _  | $\vdash$   |              | $\vdash$   |              |  | $\vdash$        |  |
|          | 127<br>128<br>129                             | -              |              | _  | ⊢  | -            | ┝  | ├            | <del> </del>                                     | $\dashv$        |  |
|          | 120   | H              | H            |  | ┝  | _            | ⊢  | $\vdash$     | $\vdash$   | $\dashv$        |  |
|          | 120   | <u> </u>       | $\vdash$     |  | $\vdash$   |              | ⊢  | ┝            | $\vdash$   | $\dashv$        |  |
|          | 130<br>131                                    | -              |              |  | $\vdash$   | -            | $\vdash$   | $\vdash$     | $\vdash$   |                 |  |
| -        | 122   | ├—             |              | $\vdash$   | $\vdash$   | -            | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$        |  |
|          | 132<br>133                                    | <del> </del>   | $\vdash$     | $\vdash$   | $\vdash$   | -            | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash \vdash$ |  |
|          | 134   | $\vdash$       | $\vdash$     | $\vdash$   | <del> </del>                                     | -            | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash\vdash$  |  |
|          | 134   | $\vdash$       | $\vdash$     |  | $\vdash$   |              |  | $\vdash$     | $\vdash$   | $\vdash \vdash$ |  |
| L        | 135<br>136                                    | ┝              |              | $\vdash$   | $\vdash$   | ├─           |  | $\vdash$     | $\vdash$   | $\vdash$        |  |
|          | 137   | -              |              | $\vdash$   | $\vdash$   | <u> </u>     | $\vdash$   | -            | <del> </del>                                     | $\vdash \vdash$ |  |
|          | 137   | _              | -            |  | $\vdash$   |              | _  |              | $\vdash$   | $\vdash\dashv$  |  |
|          | 138<br>139                                    |                | <del> </del> |  |  | ├            | -  | $\vdash$     |  | $\vdash$        |  |
| <u> </u> | 140   | <u> </u>       | <del> </del> | -  |  | <del> </del> |  | -            | $\vdash$   | $\vdash \vdash$ |  |
|          | 444   | $\vdash$       | $\vdash$     |  | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$        |  |
|          | 141   |                | -            |  |  | ┢            |  |              | $\vdash$   | $\vdash \vdash$ |  |
|          | 143   |                | $\vdash$     | -  | <del>                                     </del> |              | ├-   | <del> </del> | -  | $\vdash$        |  |
|          | 144   | <del> </del> - | <del> </del> | -  | -  | $\vdash$     | <del>                                     </del> | $\vdash$     | $\vdash$   | $\vdash$        |  |
|          | 145   | -              | <del> </del> | <del>                                     </del> | $\vdash$   | $\vdash$     | -  | $\vdash$     | $\vdash$   | $\vdash$        |  |
|          | 146   | $\vdash$       |              |  |  | $\vdash$     | $\vdash$   | -            | <del>                                     </del> | $\vdash$        |  |
| <u> </u> | 147   |                | <del> </del> |  | $\vdash$   | $\vdash$     | -  | $\vdash$     | $\vdash$   | $\vdash$        |  |
|          | 148   | H              | ├            | -  | -  | <del> </del> | -  | $\vdash$     | $\vdash$   | $\vdash$        |  |
|          | 149   | <del> </del>   |              | H  | $\vdash$   | $\vdash$     | $\vdash$   | -            | <u> </u>   | $\vdash$        |  |
|          | 150   | <u> </u>       |              | -  | -  |              | ├  | <del> </del> | <u> </u>   | $\vdash\dashv$  |  |
| <u> </u> | 130   | L              |              |  | <u> </u>   | L            | L  |              | Ц.   | Ш               |  |